Carrier®
HEATING & COOLING

50JZ-2SB

50JZ 024-060 HIGH-EFFICIENCY SINGLE-PACKAGE ELECTRIC HEAT PUMP UNITS with optional ELECTRIC HEAT

— **PERFORMANCE DATA**

— **CERTIFIED DIMENSION PRINT**

— **CERTIFIED ROOF CURB DIMENSION PRINT**

Puron®
the environmentally sound refrigerant

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Form 50JZ-2SB Cancels 50JZ-1SB Printed in U.S.A. 6-01 Catalog No. 515-00009

Date:	Supersedes:	50JZ024-060 Single-Package Electric Heat Pump Units	50JZ	Rev.:
JOB DATA:		LOCATION:		
BUYER:		BUYER P.O. #	CARRIER #	
UNIT NUMBER:		MODEL NUMBER:		
PERFORMANCE DATA CERTIFIED BY:			DATE:	

50JZ units are high-efficiency, self-contained, electric heat pump units designed for easy installation and maintenance and dependable performance. All units have discharge openings for either horizontal or downflow configuration, and all have low sound levels. Units are intended for outdoor installation and may be located on a rooftop, or a ground-level concrete slab, or directly on the ground if local codes permit. This unit features Puron® refrigerant, which is environmentally sound.

FEATURES

- Puron® refrigerant, the environmentally friendly alternative.
- Energy Star Rated @ 12 SEER.
- Standard five year limited warranty and 10 year on compressor.
- Variable speed blower motor option.
  - • Better dehumidification
  - • Improved SEER
  - • Reduced sound
  - • Better heating qualities
- Unit is certified and listed by UL and c-UL. Unit is rated in accordance with ARI Standard 210.
- Low sound ratings; as low as 72 dB.
- Units are pre-wired, pre-piped, and pre-charged for minimum installation expense.
- Compressor vibration isolation provides quieter operation.
- Easily converted for downflow operation with included horizontal duct covers.
- Cabinets are constructed of heavy-duty, phosphated, zinc coated pre-painted steel capable of withstanding 500 hours in salt spray.
- Easy-to-service cabinets with single-panel accessibility.
- Liquid refrigerant driers promote clean, unrestricted operation.
- Direct-drive multi-speed, permanent split capacitor (PSC) indoor motor is standard.
- Direct-drive, PSC outdoor fan motor.
- Coils constructed of aluminum fins bonded to copper tubes.
- Louvered grille provides hail and vandalism protection.
- Envirotuff™ rust-proof unit base pan.
- Sloped drain pan minimizes standing water in the unit.
- High and low/loss of charge pressure switches to ensure proper performance and longer compressor life.
- Refrigerant service connections make checking operating pressures easier.
- Short-Cycling protection for the compressor is incorporated into our defrost control board.
- Copper & pre-coated fin coils are available from the factory by special order, for use in corrosive environments.
- Three-phase units available.

PERFORMANCE DATA

Unit Operating Weight_____lb (unit); _____lb (curb)

COOLING

Net Total Capacity _____ Btuh
Net Sensible Capacity _____ Btuh
Compressor Power Input_____kW @ _____ °F Outdoor-Air Temperature
Indoor Entering-Air db_____°F wb _____ °F
Seasonal Energy Efficiency Ratio _____
CFM _____ Ext. Static Pressure_____in. wg
Indoor Fan Motor _____Hp_____ Rpm_____Bhp
Type: _____ Standard_____ Variable

HEATING

Power Input To Unit_____ kW
Integrated Capacity _____ Btuh
Indoor Operating Temp _____°F db
Outdoor-Air Temp _____ °F (Winter Design)
COP/HSPF _____Hi _____Lo
Electric Capacity Required _____ Btuh
Rating @ 70° R.H. _____ KW Heater Selected
_____ Heat/Cool Ratio

ELECTRICAL DATA

Unit Power Supply_____Volts_____Phase_____ Hz
Minimum Circuit Amps_____Maximum Overcurrent Protection_____

FACTORY INSTALLED OPTIONS

- ☐ Pre Coated Coils
- ☐ Copper/Copper Coils
- ☐ Electronic Variable-Speed Blower Motor — ICM Motors (Integrated Control and Motor) provide variable-speed operation to optimize comfort levels year round. They are also more economical to operate than standard motors.

FIELD-INSTALLED ACCESSORIES

- ☐ Economizer
- ☐ Manual Air Damper
- ☐ Filter Rack
- ☐ Flat Roof Curb:
  - ☐ 8 in. Height
  - ☐ 14 in. Height
- ☐ Thermostat
  - ☐ Programmable
  - ☐ Non-Programmable
- ☐ Crankcase Heater
- ☐ Compressor Hard Start Kit
- ☐ 0°F Low Ambient Kit
- ☐ Square-to-Round Duct Transition Kit
- ☐ Electric Heat Package-5-20KW
- ☐ Outdoor Thermostat Kit

NOTES: _____

CERTIFIED DIMENSION PRINT

UNITED TECHNOLOGIES CARRIER — P O BOX 4808 SYRACUSE N. Y. 13221

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UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT. LBS.	UNIT WT. KG.	UNIT HEIGHT "A"	CENTER OF GRAVITY MM/IN X	Y	Z
50JZ024	208-230-1-60	299	135.6	889.5[35.02]	485.1[19.1]	348.0[13.7]	406.4[16.0]
50JZ030	208/230-1-60, 208/230-3-60	320	145.2	940.3[37.02]	497.8[19.6]	355.6[14.0]	447.0[17.6]
50JZ036	208/230-1-60, 208/230-3-60, 460-3-60	328	148.8	940.3[37.02]	500.4[19.7]	355.6[14.0]	419.1[16.5]

CORNER WEIGHT LBS./KG.	A	B	C	D
024	63/28.7	62/28.2	56/25.3	118/53.7
030	63/28.5	74/33.7	56/28.5	127/57.4
036	64/29.2	76/34.5	58/26.2	130/58.9

REQUIRED CLEARANCES TO COMBUSTIBLE MATL.

	MILLIMETERS [IN]
TOP OF UNIT	355.6 [14.00]
DUCT SIDE OF UNIT	50.8 [2.00]
SIDE OPPOSITE DUCTS	355.6 [14.00]
BOTTOM OF UNIT	12.7 [0.50]
ELECTRIC HEAT PANEL	914.4 [36.00]

NEC. REQUIRED CLEARANCES.

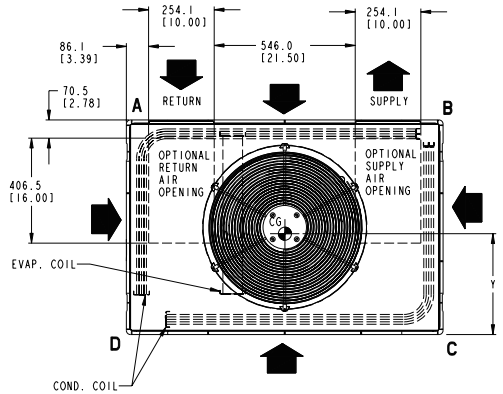
	MILLIMETERS [IN]
BETWEEN UNITS, POWER ENTRY SIDE	1066.8 [42.00]
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE	914.0 [36.00]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE	1066.8 [42.00]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

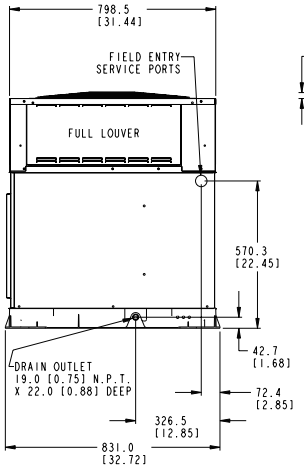
	MILLIMETERS [IN]
EVAP. COIL ACCESS SIDE	914.0 [36.00]
POWER ENTRY SIDE	914.0 [36.00]
(EXCEPT FOR NEC REQUIREMENTS)	
UNIT TOP	914.0 [36.00]
SIDE OPPOSITE DUCTS	914.0 [36.00]
DUCT PANEL	304.8 [12.00]*

*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 304.8 [12.00] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED.

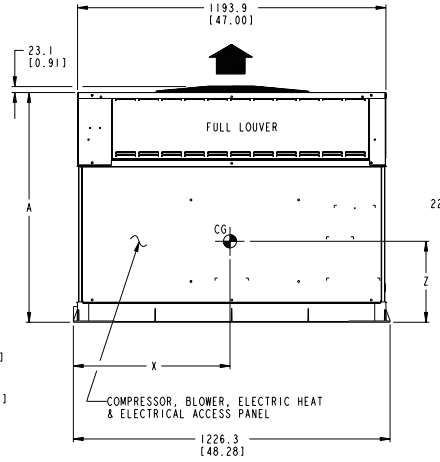
DIMENSIONS IN [ ] ARE IN INCHES



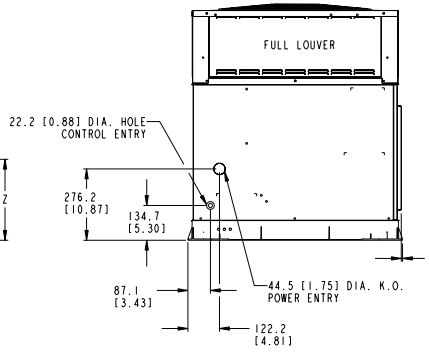
TOP VIEW



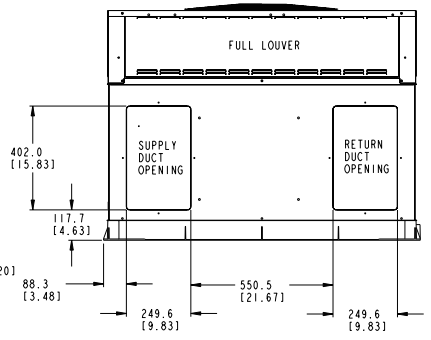
LEFT SIDE VIEW



FRONT VIEW



RIGHT SIDE VIEW



REAR VIEW

DATE 07/31/00 — SUPERSEDES . — 50JZ024-036 PACKAGED HEATPUMP — 50JZ500059 — REV .

C00129

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CERTIFIED DIMENSION PRINT

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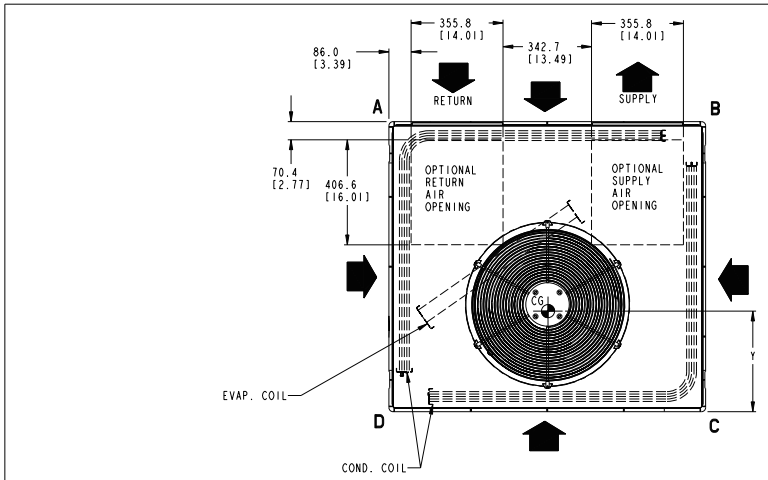
UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT. LBS.	UNIT WT. KG.	UNIT HEIGHT "A"	CENTER OF GRAVITY MM/IN X	Y	Z
50JZ042	208-230-1-60, 208/230-3-60, 460-3-60	350	158.8	1040.9[40.98]	505.5[19.9]	398.8[15.7]	421.6[16.6]
50JZ048	208-230-1-60, 208/230-3-60, 460-3-60	355	161.0	1040.9[40.98]	505.5[19.9]	398.8[15.7]	457.2[18.0]
50JZ060	208-230-1-60, 208/230-3-60, 460-3-60	428	194.1	1091.7[42.98]	505.5[19.9]	398.8[15.7]	447.0[17.6]

CORNER WEIGHT LBS./KG.	A	B	C	D
042	75/34.1	49/22.2	95/43.1	131/59.3
048	76/34.6	50/22.5	96/43.7	133/60.2
060	92/41.7	60/27.1	116/52.7	160/72.6



TOP VIEW

REQUIRED CLEARANCES TO COMBUSTIBLE MATL.

	MILLIMETERS [IN]
TOP OF UNIT	355.6 [14.00]
DUCT SIDE OF UNIT	50.8 [2.00]
SIDE OPPOSITE DUCTS	355.6 [14.00]
BOTTOM OF UNIT	12.7 [0.50]
ELECTRIC HEAT PANEL	914.4 [36.00]

NEC. REQUIRED CLEARANCES.

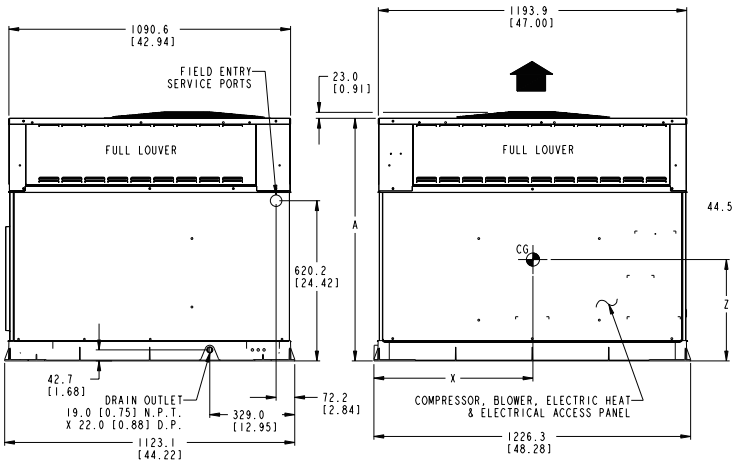
	MILLIMETERS [IN]
BETWEEN UNITS, POWER ENTRY SIDE	1066.8 [42.00]
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE	914.0 [36.00]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE	1066.8 [42.00]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

	MILLIMETERS [IN]
EVAP. COIL ACCESS SIDE	914.0 [36.00]
POWER ENTRY SIDE	914.0 [36.00]
(EXCEPT FOR NEC REQUIREMENTS)	
UNIT TOP	914.0 [36.00]
SIDE OPPOSITE DUCTS	914.0 [36.00]
DUCT PANEL	304.8 [12.00]*

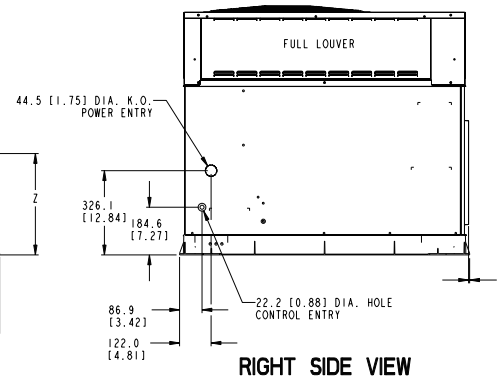
*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 304.8 [12.00] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED.

DIMENSIONS IN [] ARE IN INCHES

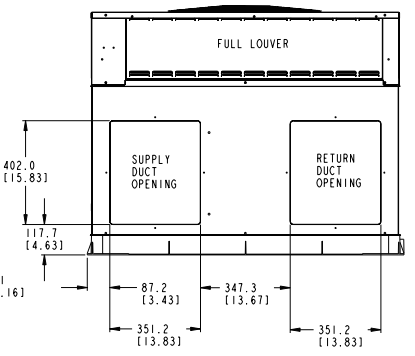


LEFT SIDE VIEW

FRONT VIEW



RIGHT SIDE VIEW



REAR VIEW

DATE 07/31/00 | SUPERSEDES - | 50JZ042-060 PACKAGED HEATPUMP | 50JZ500061 | REV -

C00130

CERTIFIED DIMENSION PRINT

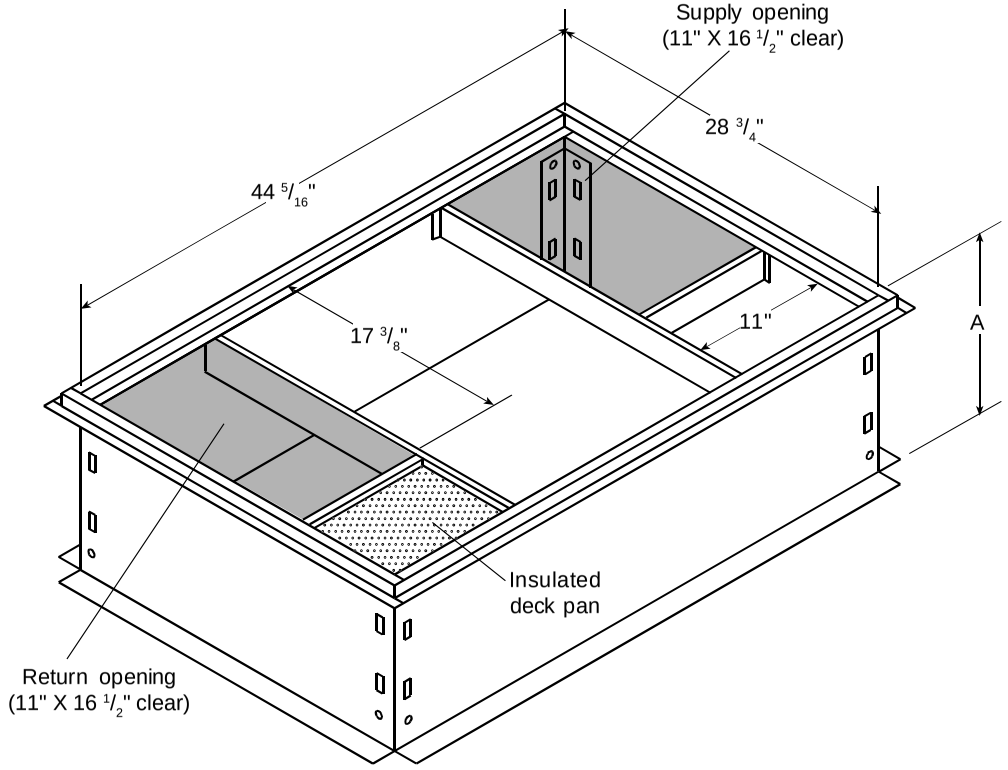
SUBMITTAL

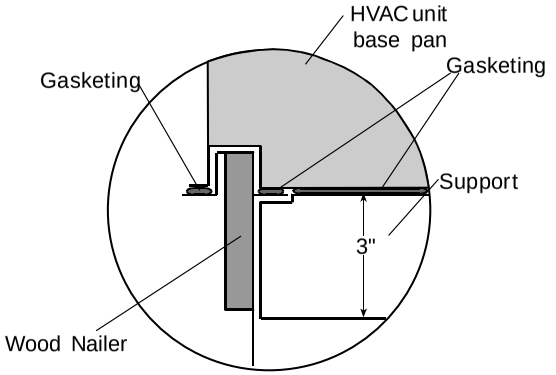
Roof Curb for Small Cabinet

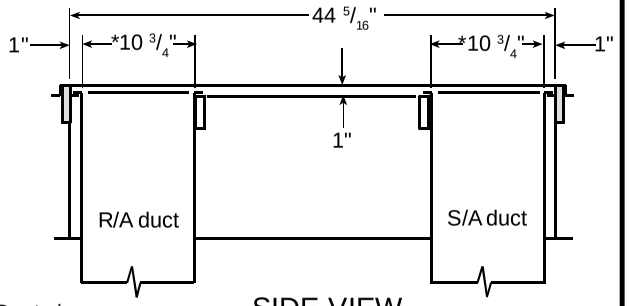
SUBMITTED TO _____
COMPANY: _____
DRAWN BY: A.L.L.
JOB NAME: _____
EQUIPMENT: _____
NOTES: _____

ODS Catalog Ordering No.	A
CPCRFCURB006A00	8"
CPCRFCURB007A00	14"

Feature:
- Constructed of heavy gage galvanized steel.
- Roofcurb ships knocked down in corrugated box.
- Quick-clip design for easy field assembly.
- Insulated deck pan.
- Gasketing package and hardware included.
- Wood nailer provided.







* Duct size

SIDE VIEW

C00077

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CERTIFIED DIMENSION PRINT

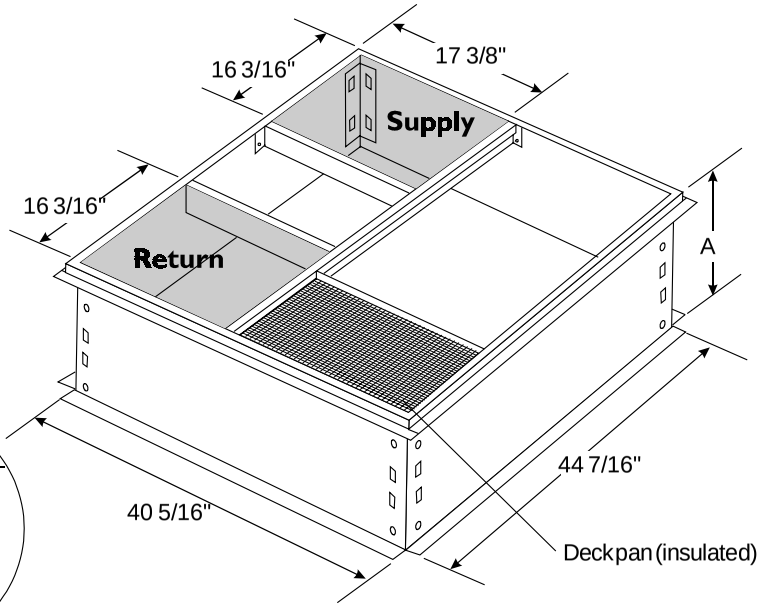
SUBMITTAL

Roof Curb for Large Cabinet

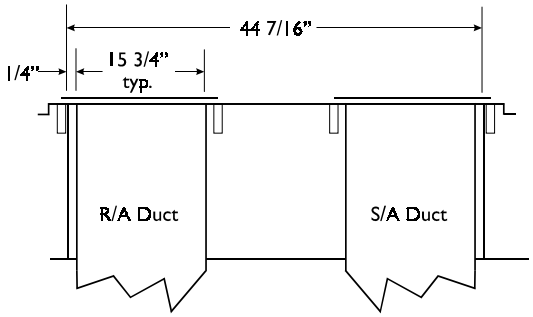
SUBMITTED TO: _____
COMPANY: _____
DRAWN BY: M. HARGIS
JOB NAME: _____
EQUIPMENT: _____
NOTES: _____

FEATURES:

- Constructed of heavy gage galyanized steel.
- Quick-clip design for easy field assembly.
- Ships knocked down w/corrugated box.
- Gasket package for complete outer perimeter flange and around duct openings.
- Wood nailer provided.



Side View



ODS Catalog Ordering No.	A
CPRFCURB008A00	8"
CPRFCURB009A00	14"

C00078

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.